

NASA TECH BRIEF



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Investigation of Spacecraft Coatings

A literature review was undertaken to provide an up-to-date compilation of the properties of coating materials used for external application on space vehicles. The various coatings used on individual spacecraft are defined by trade name, source, and chemical nature where applicable.

Specific information on the chemical, mechanical, electrical, and thermal properties is presented with comments on prelaunch, postlaunch and orbital behavior when available. Special attention has been given to absorptance-emittance data and experimental spectral reflectance curves.

This compilation should be of interest to all industries involved in metallurgical coating processes, chemical applications to metals, and general fabrication methods of coating materials. The information can serve as a reference text in addition to being a convenient source which outlines the principle properties of coatings in the present technology.

Note:

Inquiries concerning this literature on spacecraft coatings may be directed to:

Clearinghouse for Federal Scientific
and Technical Information
Springfield, Virginia 22151
Price \$3.00
Reference: TSP69-10181

Patent status:

No patent action is contemplated by NASA.

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